

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
15 April 2004 (15.04.2004)

PCT

(10) International Publication Number
WO 2004/031370 A1

(51) International Patent Classification⁷: **C12N 5/08**

(21) International Application Number:
PCT/EP2003/011024

(22) International Filing Date: 6 October 2003 (06.10.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
MI2002A 002118 4 October 2002 (04.10.2002) IT

(71) Applicant (for all designated States except US): **ABIO-GEN PHARMA S.P.A.** [IT/IT]; Via Meucci, 36, Località Ospedaletto, I-56121 Pisa (IT).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **TRASCIATTI, Silvia** [IT/IT]; Via Delle Murella, 37-E, I-56017 San Giuliano Terme (IT). **NOLLI, Maria, Luisa** [IT/IT]; Via Mosè Bianchi, 26, IT-20149 Milano (IT). **CAVENAGHI, Luigi** [IT/IT]; Via Mosè Bianchi, 26, IT-20149 Milano (IT). **DE BERNARDI, Nadia** [IT/IT]; Via Giotto, 17, IT-20010 Inveruno (IT).

(74) Agent: **GERVASI, Gemma**; Notarbartolo & Gervasi S.p.A., Corso di Porta Vittoria, 9, I-20122 Milan (IT).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv)) for US only

Published:

— with international search report
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PROCEDURE FOR THE LARGE-SCALE T-LYMPHOCYTES CULTURE IN A HOMOGENEOUS SYSTEM

(57) Abstract: The present invention refers to a procedure for the large-scale amplification of human lymphocytic cell lines for therapeutic use, consisting of a homogeneous culture system. The claimed invention also refers to the production of therapeutic doses of lymphocytic cells cultured homogeneously.

WO 2004/031370 A1